

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Appln. 09/732,712

introducing the ammonia as a sample at a constant flow rate into the cell,
measuring infrared absorption intensity of the sample at the infrared wave number, and
obtaining the water concentration based on the measured intensity of the sample and the
background absorption intensity of the reference gas with a water concentration calibration curve
prepared in advance.

22. (Amended) A method for measuring a water concentration in liquefied ammonia having a water concentration of 10 ppm or less, comprising

introducing a gaseous phase moiety of liquefied ammonia having a water concentration of 10 ppm or less as a reference gas into a multi-reflection long optical path cell,

measuring infrared absorption intensity of the reference gas at an infrared wave number at which infrared absorbances of ammonia and water do not overlap as background absorption,

introducing a gas vaporized by heating liquefied ammonia as a sample at a constant flow rate into the cell,

measuring infrared absorption intensity of the sample at the infrared wave number, and
obtaining the water concentration based on the measured intensity of the sample and the background absorption intensity of the referenced gas with a water concentration curve prepared in advance.
